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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently Amended) Method for performing speech recognition on an input audio signal having a speech component and a noise component, said method comprising the steps of:

(a) obtaining at least one clean speech model;

(b) obtaining at least one noise model;

~~(c) deriving at least one noisy speech model directly from said at least one clean speech model and said at least one noise model in accordance with a signal to noise ratio;~~

(c) generating a weight in accordance with a signal-to-noise ratio;

(d) applying said weight to said at least one noise model and said at least one clean speech model to derive said at least one noisy speech model; and

~~(d)~~ (e) applying said at least one noisy speech model to extract a recognized text from the input audio signal.

2. (Original) The method of claim 1, wherein said obtaining step (b) comprises the step of estimating said at least one noise model from one or more features of the noise component in the input audio signal.

3. - 4. (Cancelled)

5. (Currently Amended) The method of claim ~~[[4]]~~ 1, wherein said applying step ~~(c2)~~ (d) applies said weight in a first multiplication operation to said at least one noise model and in a second multiplication operation to said at least one clean speech model.

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6. (Original) The method of claim 5, wherein said products from said multiplication operations are summed to derive said at least one noisy speech model.

7. (Currently Amended) Apparatus for performing speech recognition on an input audio signal having a speech component and a noise component, said apparatus comprising:

means for obtaining at least one clean speech model;

means for obtaining at least one noise model;

~~means for deriving at least one noisy speech model directly from said at least one clean speech model and said at least one noise model in accordance with a signal-to-noise ratio~~

means for generating a weight in accordance with said signal-to-noise ratio;

means for applying said weight to said at least one noise model and said at least one clean speech model to derive said at least one noisy speech model; and

means for applying said at least one noisy speech model to extract a recognized text from the input audio signal.

8. (Original) The apparatus of claim 7, wherein said means for obtaining at least one noise model estimates said at least one noise model from one or more features of the noise component in the input audio signal.

9. - 10. (Cancelled)

11. (Currently Amended) The apparatus of claim ~~10~~ 7, wherein said ~~deriving~~ for applying said weight applies said weight in a first multiplication operation to said at least one noise model and in a second multiplication operation to said at least one clean speech model.

12. (Original) The apparatus of claim 11, wherein said products from said multiplication operations are summed to derive said at least one noisy speech model.

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13. (Currently Amended) A computer-readable medium having stored thereon a plurality of instructions, the plurality of instructions including instructions which, when executed by a processor, cause the processor to perform the steps of a method for performing speech recognition on an input audio signal having a speech component and a noise component, said method comprising the steps of:

(a) obtaining at least one clean speech model;

(b) obtaining at least one noise model;

~~(c) deriving at least one noisy speech model directly from said at least one clean speech model and said at least one noise model in accordance with a signal-to-noise ratio;~~

(c) generating a weight in accordance with a signal-to-noise ratio;

(d) applying said weight to said at least one noise model and said at least one clean speech model to derive said at least one noisy speech model; and

~~(d)~~ (e) applying said at least one noisy speech model to extract a recognized text from the input audio signal.

14. (Original) The computer-readable medium of claim 13, wherein said obtaining step (b) comprises the step of estimating said at least one noise model from one or more features of the noise component in the input audio signal.

15. - 16. (Cancelled)

17. (Currently Amended) The computer-readable medium of claim 46 13, wherein said applying step ~~(e2)~~ d applies said weight in a first multiplication operation to said at least one noise model and in a second multiplication operation to said at least one clean speech model.

18. (Original) The computer-readable medium of claim 17, wherein said products from said multiplication operations are summed to derive said at least one noisy speech

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model.